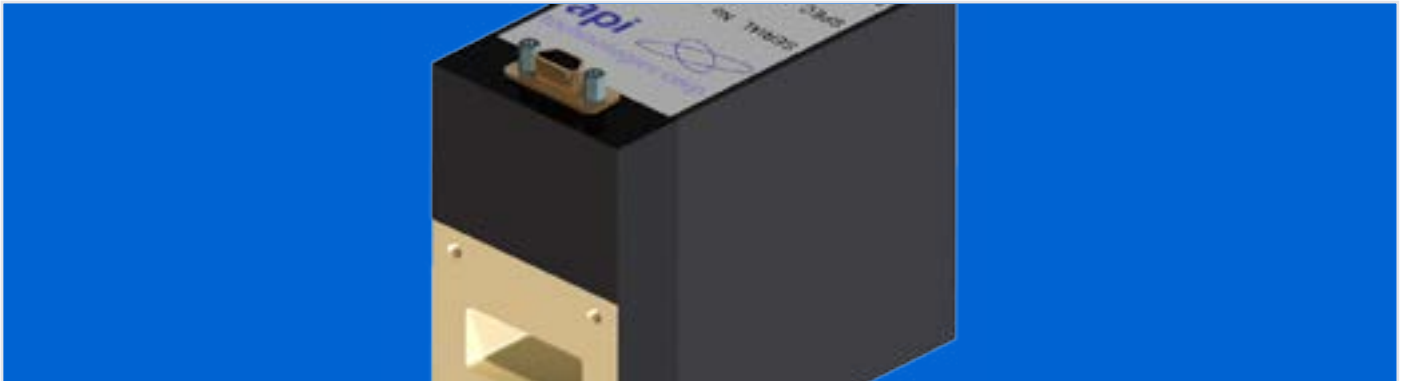


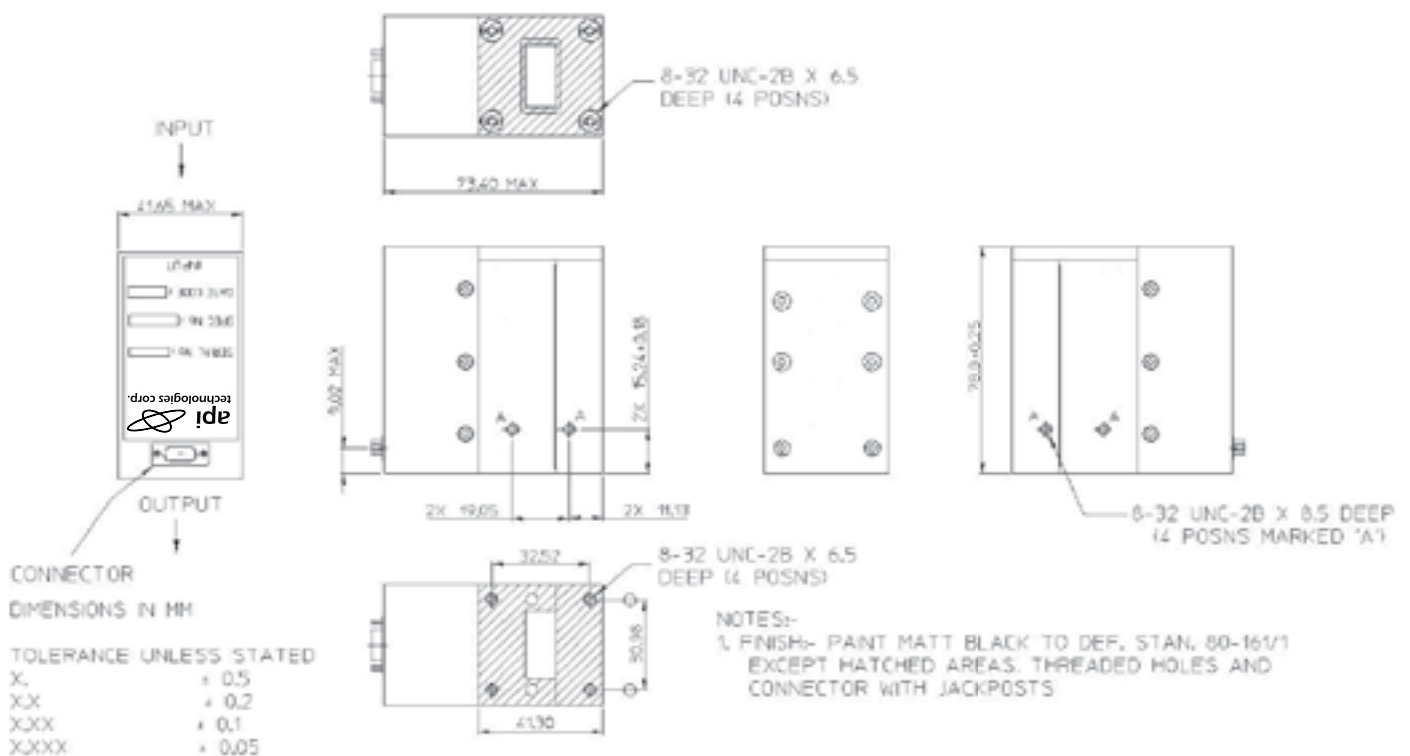
MALI-007212-000000

X-Band Waveguide Limiter with STC Blanking and Noise Source



- High Reliability
- Sensitivity Time Control (STC)
- Blanking feature
- Integrated Noise Source
- High power handling
- Low insertion loss
- European Manufacture

Mechanical Outline



OUTLINE DRAWING - MALI-007212-000000

RF Performance information

Parameter	Value			Units
	Min.	Typ.	Max.	
Frequency Band	9.0		9.6	GHz
Insertion Loss		0.5	1.0	dB
Normal Operating	Peak Power		500	W
	Mean power		15	W
	Pulse width		40	µs
	Duty cycle	25:1		Ratio
Input / Output Return Loss (Input power <= -10 dBm)		<1.29:1	1.38:1	Ratio
Fault condition, Peak power(40µs Pulse Max., 25:1 duty cycle min.)			5000	W
Fault Duration			10	ms
Flat Leakage			50	mW
Spike Leakage (RF rise time >= 15ns)		<250	500	mW
Recovery time, Normal Operating (to within 3dB of Insertion Loss)		650-750	1000	ns
Blanking Isolation	60			dB
STC Control (Input impedance approx. 3kΩ)	0		5	v
STC Response (monotonic)	0		45	dB
Supply current, +15V Rail		30	100	mA
Supply current, -15V Rail		45	100	mA
Noise Source Supply (-15 ±1V applied Pin 3, 9 Way MDM)		13	17	mA
Noise Source ENR (Blanking Active)			12 ± 1.5	dB

(Applies over the frequency range, output and input characteristic impedance of stated waveguide. Unless otherwise stated limits & conditions are indicated values.)

Pin-out 9 Way MDM Plug

Pin	Function
1	+15V Supply
2	Blanking
3	Noise Source
5	-15V Supply
6	+15V Return (GND)
8	STC
9	-15V Return (GND)
4, 7	Not Used

Blanking Input

Single ended TTL

'0' = Insertion Loss

'1' = Blanking

Environmental	
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +90°C
RF Connections	
Input / Output	WG16
Pressure window fitted to front flange, 1.5 bar (gauge) Max.	

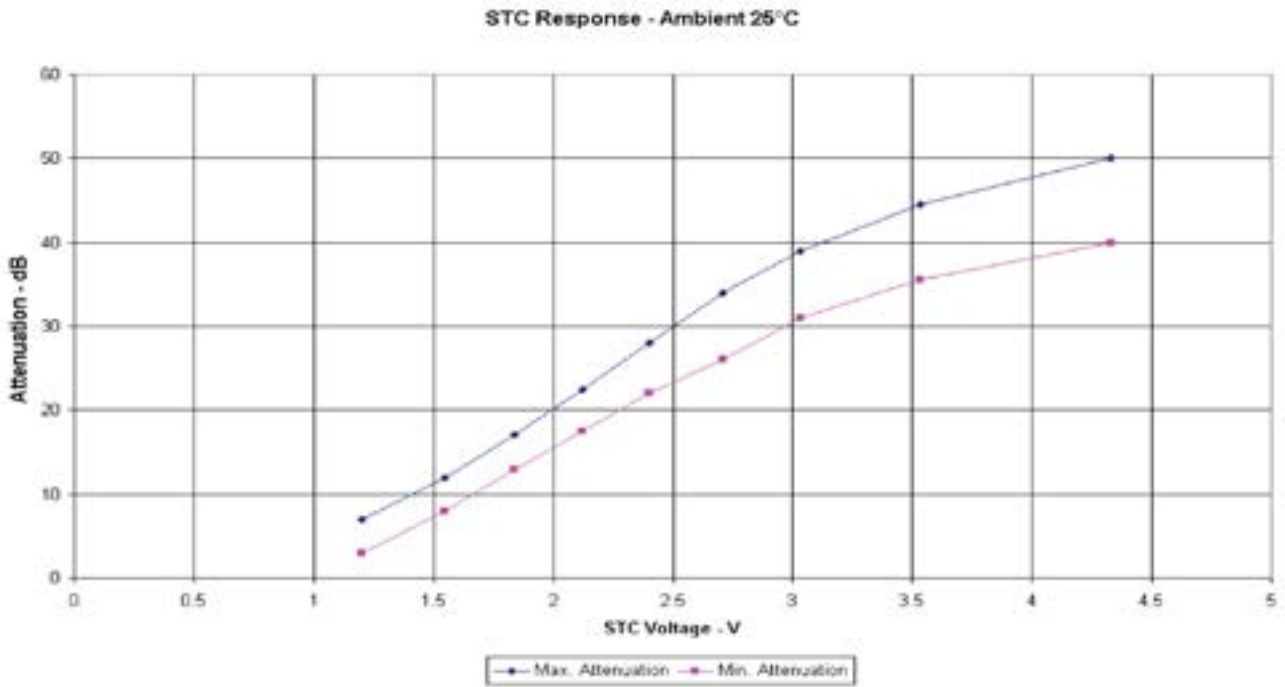
Noise Source

Apply bias to 9 way MDM. Pin 3

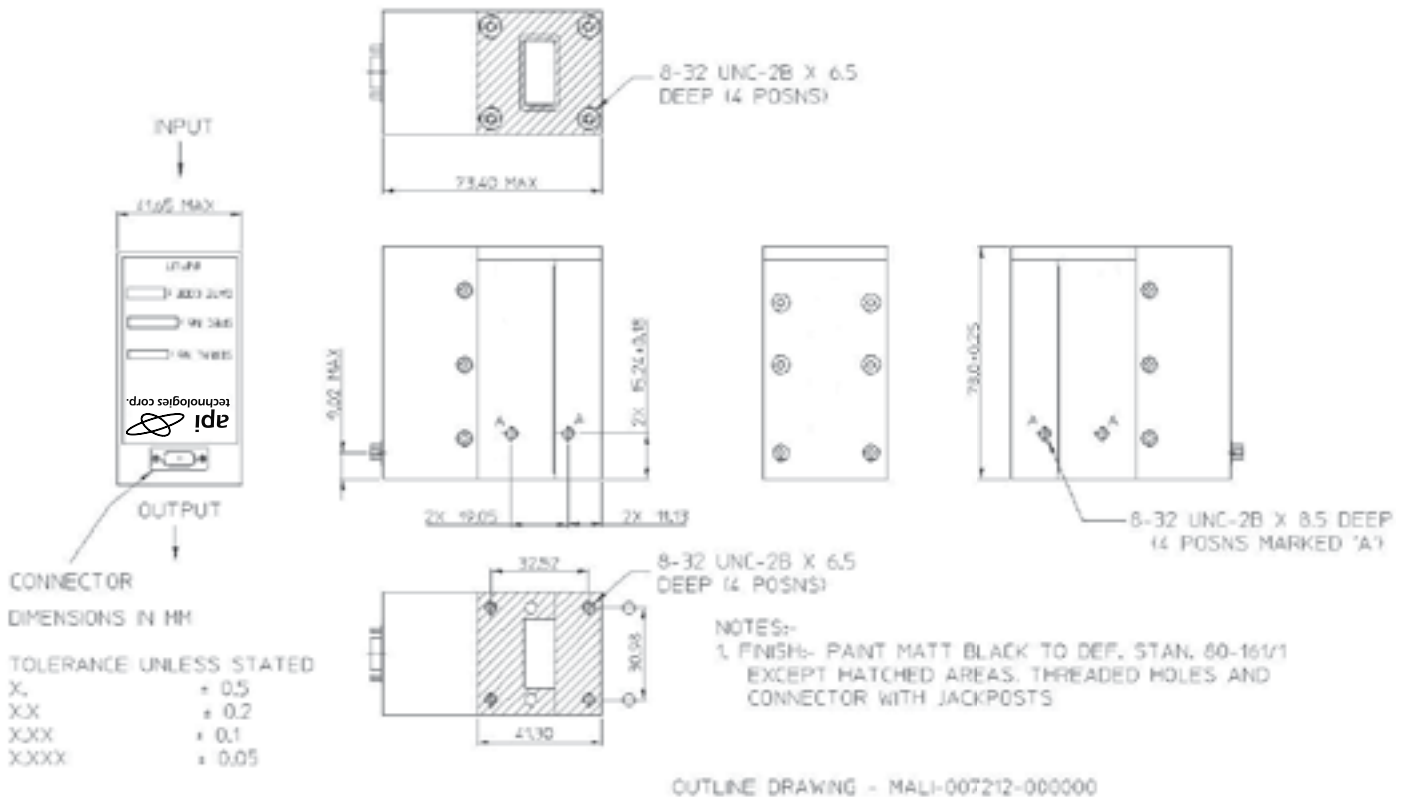
Noise Source OFF : 0V Bias, Pin 3

Noise Source ON : -15V ± 1V Bias, Pin 3

STC Response



Mechanical Outline



Whilst every effort is made to ensure the accuracy of the information contained in this brochure, no responsibility can be accepted for any errors and/or omissions. Descriptions and specifications of products are subject to change without notice.